### PATENT COOPERATION TREATY **PCT**

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 040854PC/GC/RG	FOR FURTHER ACTION		See Form PCT/IPEA/416	
International application No. PCT/AU2004/001001	International filing date 27 July 2004	(day/month/year)	Priority date (day/month/year) 28 July 2003	
International Patent Classification (IPC) or	national classification and	i IPC		
Int. Cl. 7 B65D 83/62, 83/66, 83/14,	81/32, 77/06			
Applicant		•		
LARKIN, Bryan James				
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This report is the international prelimin Authority under Article 35 and transmi	ary examination report, estted to the applicant accor	stablished by this Interding to Article 36.	rnational Preliminary Examining	
2. This REPORT consists of a total of 6	sheets, including this cov	ver sheet.		
3. This report is also accompanied by AN				
a. X (sent to the applicant and to the	se International Bureau) a	fotal of 2 sheets, a	s follows:	
sheets containing rectific Administrative Instruction	ations authorized by this Aons).	Authority (see Rule 7	ded and are the basis for this report and/or 0.16 and Section 607 of the	
the disclosure in the inter	mational application as fil	ed, as indicated in ite	s contain an amendment that goes beyond m 4 of Box No. I and the Supplemental	
b. (sent to the International Bure a sequence listing and/or table Relating to Sequence Listing (	related thereto, in compu	iter readable loith om	y, as malcaled in the supplemental son	
4. This report contains indications relation			·	
X Box No. I Basis of the rep	ort			
Box No. II Priority				
Box No. III Non-establishm	ent of opinion with regard	d to novelty, inventive	e step and industrial applicability	
X Box No. IV Lack of unity o	f invention		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
X Box No. V Reasoned states citations and ex	applicability:			
Box No. VI Certain docume				
	in the international applic			
X Box No. VIII Certain observations on the international application				
Date of submission of the demand		Date of completion of	of the report	
28 February 2005		20 October 2005		
Name and mailing address of the IPBA/AU		Authorized Officer		
AUSTRALIAN PATENT OFFICE				
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# : INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

## PCT/AU2004/001001

Box	No. I	Basis of the report			
1.	other	regard to the language, this report is based on the international application in the language in which it was filed, unless wise indicated under this item.			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
		international search (under Rules 12.3 and 23.1 (b))			
		publication of the international application (under Rule 12.4)			
		international preliminary examination (under Rules 55.2 and/or 55.3)			
2.	furni	regard to the elements of the international application, this report is based on (replacement sheets which have been shed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally " and are not annexed to this report):  the international application as originally filed/furnished			
	모	the description:			
	X	pages 1-24 as originally filed/furnished			
		pages* received by this Authority on with the letter of			
		pages* received by this Authority on with the letter of			
	$\overline{\mathbf{x}}$	the claims:			
		pages as originally filed/furnished			
		pages* as amended (together with any statement) under Article 19			
		pages*25-26 received by this Authority on 13 September 2005 with the letter of 13 September 2005 pages* received by this Authority on with the letter of			
	[37]	pages* received by this Authority on with the letter of the drawings:			
	X	pages 1-5 as originally filed/furnished			
		pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of			
	П	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, Nos.			
1		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to the sequence listing (specify):			
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).			
		the description, pages			
		the claims, Nos.			
		the drawings, sheets/figs .			
		the sequence listing (specify):			
		any table(s) related to the sequence listing (specify):			
*	. Ij	item 4 applies, some or all of those sheets may be marked "superseded."			

### ' INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001001

Box	No. I	V L	ack of unity of invention
1.	X	In respon	nse to the invitation to restrict or pay additional fees the applicant has:
		re	stricted the claims.
		pa	aid additional fees.
		pa	aid additional fees under protest.
		X ne	either restricted nor paid additional fees.
2.		This Au	thority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, wite the applicant to restrict or pay additional fees.
3.	This	Authority	considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
		complie	d with.
	X		plied with for the following reasons:
		relate to	ernational application does not comply with the requirements of unity of invention because it does not o one invention or to a group of inventions so linked as to from a single general inventive concept. In g to this conclusion the International Searching Authority has found that there are different inventions
		as follows	s: 
		contain contain constitu It is con	ms 1-8 are directed to a spray applicator comprising an applicator having a first containing portion for hing a first constituent of the mixture, and at least one second containing portion for releasably hing a further constituent of the mixture, wherein at least the further constituent may mix with the first usent to form a mixture.  Insidered that this spray applicator for containing, mixing and releasing comprises a first "special cal feature".
		spraye	m 9 is directed to a spray applicator which comprises a container for containing at least one fluid to be d which includes an internal agitation means and a drive means separate from but engageable with the on means.
		It is co	on intensity on the internal agitation means comprises a second "special cal feature".
		contin	ued on supplemental sheet
4.	Con	nsequently	y, this report has been established in respect of the following parts of the international application:
		al	ll parts.
	٠	X t	he parts relating to claims Nos. 1-8

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001001

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability	;
	s and explanations supporting such statement	

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1. Statement						
	Novelty (N)	Claims 1-8	YES			
		Claims	NO			
	Inventive step (IS)	Claims 1-8	YES			
		Claims	NO			
	Industrial applicability (IA)	Claims 1-8	YES			
		Claims	NO			

2. Citations and explanations (Rule 70.7)

#### NOVELTY (N) & INVENTIVE STEP (IS) Claims 1-8

The invention defined by the amended claims is a spray applicator for containing, mixing and releasing constituents of a reactive mixture which comprises a first compartment & at least a second compartment, wherein the constituents of the two compartments can be mixed together before being released from the spray applicator. In particular an expulsion member is manipulated to open the at least one second containing portion and forcibly expel the second constituent portion to mix with the first constituent.

The closest art mentioned in the International Search Report is US 4635822 A which discloses an apparatus for spraying which contains at least two separate compartments, one of the compartments being ruptured by a pin on the bottom of the container that allows the two previously separate mixtures to mix together. The mixed solution is then dispensed from the container.

No individual citation or obvious combination of citations disclose this arrangement.

Claims 1-8 are therefore novel and have inventive step.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/001001

Box No. VIII	Certain	observations	on	the international	application
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

On page 19 line 13 "expulsion member 28" should be item 2, on page 19 line 15 "expulsion member 4" should be item 2, on page 19 line 16 "expulsion member 28" should be item 2, page 19 line 18 "expulsion member 28" should be item 4

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

	PCT/AU2004/001001				
Supplemental Box					
In case the space in any of the preceding boxes is not sufficient.					
Continuation of: Box IV					
3. Claim 10 is directed to a spray applicator which comprises a container, activation means, a container closure engageable with the container which includes a fluid opening, at least one reservoir for containing a further constituent in fluid communication with the fluid opening and a mixing valve to control the flow of the further constituent from the at least one reservoir. It is considered that the container, activation means & container closure comprises a third "special technical feature".					
Since the abovementioned groups of claims do not share either of the technical featurelationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accapplication does not relate to one invention or to a single inventive concept.	ares identified, a "technical cordingly the international				
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#### Claims

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- 1. A spray applicator for containing, mixing and releasing constituents of a reactive mixture, the applicator having
  - i. a first containing portion for containing a first constituent of the mixture; and
- ii. at least one second containing portion for releasably containing a further constituent of the mixture, and
  - iii. an expulsion member for forcibly expelling the further constituent from the at least one second containing portion,

wherein each at least one second containing portion is operable between a first,

unmixed condition in which the second constituent is retained separately from the first

constituent and a second mixing condition in which the expulsion member is

manipulated to open the at least one second containing portion and forcibly expel the

second constituent from the second containing portion to mix with the first

constituent.

- 2. A spray applicator according to claim 1 further comprising an opening provided in a lower portion of the container and an activation means for moving the second containing portion between the first, unmixed condition in which the second constituent is retained separately from the first constituent and the second mixing condition.
- A spray applicator according to claim 1 wherein the first containing portion is a pressurised can.
  - 4. A spray applicator according to claim 3 wherein the second containing portion is located toward a lower portion or bottom of the pressurised can.
  - 5. A spray applicator according to claim 1 wherein the second containing portion is a pouch or sac and is located abutting or resting against the bottom of the can.
    - 6. A spray applicator according to claim 5 wherein the bag or sac second containing portion is rupturable to release the further constituent.
- 7. A spray applicator according to claim 6 wherein the expulsion member is associated with the activation means to move the expulsion member between a first condition in which the expulsion member is spaced from the bottom of the can, with the pouch or sac between the expulsion member and the bottom of the can, and a second condition in which the expulsion member is forced toward the bottom of the

Amended Sheet

can, with the pouch or sac between the expulsion member, forcing the expulsion of the further constituent from the pouch or sac.

- 8. A spray applicator according to claim 7 wherein the activation means includes the expulsion member having a threaded projecting portion extending into the bottom of the can and rotation of the activation means moves the expulsion member between the first and second conditions.
- 9. A spray applicator having,

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- at least one container for containing at least one fluid to be sprayed, one of the containers having an internal agitation means to agitate the at least one fluid, and
- ii. drive means separate from but engageable with the agitation means, the drive means adapted to engage the agitation means magnetically to drive the agitation means within the container.
- 10. A spray applicator for containing, mixing and releasing constituents of a reactive mixture, the applicator having
  - i. a container for containing a first constituent of the mixture;
  - ii. activation means to release the first constituent from the container;
  - iii. a container closure engageable with the container, the container closure comprising
    - a. a fluid opening through which fluid can flow, the fluid opening in fluid communication with the container.
    - b. at least one reservoir for containing a further constituent in fluid communication with the fluid opening, and
    - c. a mixing valve to control the flow of the further constituent from the at least one reservoir,

wherein upon operation of the activation means the further constituent is drawn from the at least one reservoir by the flow of the first constituent and the further constituent mixes with the first constituent, prior to exiting the container closure.